

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL051618\
 Data File : VL032014.D
 Acq On : 17 May 2018 10:09
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 5/17/2018 3:34:19 PM

Quant Time: May 17 14:38:03 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 0
 QLast Update : Thu May 03 15:52:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.88	49	1225065	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2497717	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.38	117	2648245m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.72	95	1989350	9.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.15	85	1193275	7.37	ppbv	97
3) Chlorodifluoromethane	3.09	51	906359	7.86	ppbv	97
4) Chloromethane	3.25	50	565211	9.31	ppbv	98
5) Vinyl Chloride	3.37	62	587049	8.57	ppbv	95
6) Bromomethane	3.60	94	414046	9.28	ppbv	97
7) Chloroethane	3.68	64	249783	9.58	ppbv	91
8) Dichlorotetrafluoroethane	3.30	85	1466205	9.10	ppbv	97
9) Propene	3.11	41	410888	9.73	ppbv	99
10) Heptane	8.38	43	1426730	9.82	ppbv	98
11) Trichlorofluoromethane	4.10	101	1771624	9.07	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.65	101	1382563	10.05	ppbv	96
13) Ethanol	3.73	45	131655	8.35	ppbv #	100
14) Bromoethene	3.88	108	478827	9.41	ppbv	99
15) Acetone	3.99	43	1267796	7.32	ppbv	99
16) 1,3-Butadiene	3.45	39	520642	9.35	ppbv	93
17) tert-Butyl alcohol	4.45	59	597458	8.34	ppbv	100
18) 1,1-Dichloroethene	4.45	96	624870	10.36	ppbv	98
19) Isopropyl Alcohol	4.12	45	852276m	9.10	ppbv	
20) Methylene Chloride	4.51	84	579637	9.92	ppbv	99
21) Allyl Chloride	4.58	41	971268	9.84	ppbv	99
22) trans-1,2-Dichloroethene	5.07	96	680486	10.16	ppbv	97
23) Vinyl Acetate	5.26	43	1963685	9.92	ppbv	99
24) 1,1-Dichloroethane	5.20	63	1777492	9.63	ppbv	99
25) Ethyl Acetate	5.88	43	2684464	9.03	ppbv	100
26) Hexane	5.89	57	1286893	9.21	ppbv	98
27) Carbon Disulfide	4.72	76	1695455	10.83	ppbv	99
28) Methyl tert-Butyl Ether	5.22	73	1699644	9.89	ppbv	99
29) Chloroform	5.96	83	2034791	9.20	ppbv	98
30) Cyclohexane	7.38	84	878986	9.44	ppbv	99
31) cis-1,2-Dichloroethene	5.76	61	1253950	9.81	ppbv	99
32) 1,1,1-Trichloroethane	6.74	97	1740033	8.54	ppbv	99
34) 2-Butanone	5.44	43	1865182	9.05	ppbv	99
35) Carbon Tetrachloride	7.26	117	1839667	9.29	ppbv	100
36) Benzene	7.13	78	2218147	9.43	ppbv	96
37) 1,2-Dichloroethane	6.53	62	1430683	8.46	ppbv	99
38) Trichloroethene	8.09	130	906273	10.14	ppbv	99
39) 1,2-Dichloropropane	7.86	63	801535	9.79	ppbv	96
40) 1,4-Dioxane	8.08	88	354385	9.60	ppbv	96
41) Tetrahydrofuran	6.26	42	769064	8.57	ppbv	99
42) Bromodichloromethane	8.05	83	1876585	9.95	ppbv	95
43) Methyl Methacrylate	8.26	69	803685	10.14	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.12	57	3692627	9.73	ppbv	99
45) t-1,3-Dichloropropene	9.55	75	1148305	10.93	ppbv	100
46) cis-1,3-Dichloropropene	8.97	75	1381287	10.65	ppbv	99
47) 1,1,2-Trichloroethane	9.75	97	925988	9.56	ppbv	98
48) Dibromochloromethane	10.59	129	1593513	10.25	ppbv	100
49) Bromoform	13.35	173	1310176	10.87	ppbv	100
50) 4-Methyl-2-Pentanone	9.00	43	1893424	9.73	ppbv	99
51) 2-Hexanone	10.40	43	1764531	9.96	ppbv #	100
52) Tetrachloroethene	11.51	164	840707	9.65	ppbv	97
53) Toluene	10.08	91	2587696	10.20	ppbv	100
54) 1,2-Dibromoethane	10.90	107	1414213	9.79	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.42	131	1091017	9.05	ppbv	98
57) Chlorobenzene	12.44	112	2040997	8.94	ppbv	98
58) Ethyl Benzene	13.00	91	3732327	9.84	ppbv	99
59) m/p-Xylene	13.29	91	6240238m	19.40	ppbv	
60) o-Xylene	13.99	91	3145960	9.74	ppbv	100
61) Styrene	13.83	104	722424	11.03	ppbv	99
62) Isopropylbenzene	14.96	105	3998895	9.69	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.98	83	2128288	9.28	ppbv	100
64) n-propylbenzene	15.86	120	1052811	10.17	ppbv	97
65) tert-Butylbenzene	17.05	119	3561693	9.68	ppbv	100
66) Benzyl Chloride	17.30	91	436313	13.05	ppbv	100
67) sec-Butylbenzene	17.60	105	5117051	10.01	ppbv	99
69) p-Isopropyltoluene	17.95	119	4270191	10.40	ppbv	100
70) n-Butylbenzene	18.85	91	4491246	10.57	ppbv	100
71) 2-Chlorotoluene	15.76	91	3101306	10.27	ppbv	100
72) 4-Ethyltoluene	16.14	105	3428458	10.46	ppbv	100
73) 1,3,5-Trimethylbenzene	16.30	105	3091388	10.20	ppbv	98
74) 1,2,4-Trimethylbenzene	17.06	105	3302734	9.85	ppbv	97
75) 1,3-Dichlorobenzene	17.31	146	2072345	10.02	ppbv	100
76) 1,4-Dichlorobenzene	17.45	146	2079422	10.16	ppbv	100
77) 1,2-Dichlorobenzene	18.13	146	2122087	10.19	ppbv	100
78) Hexachloro-1,3-Butadiene	23.67	225	1298061	13.71	ppbv	100
79) Naphthalene	22.57	128	2901975	12.43	ppbv	98
80) Naphthalene, 2-methyl-	25.22	142	839709	15.08	ppbv	99
81) 1,2,4-Trichlorobenzene	22.30	180	1467002	11.33	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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